Field Crops Research, 30 (1992) 447–448
Elsevier Science Publishers B.V., Amsterdam

Contents of *Field Crops Research*, Volume 30

VOL. 30 NOS. 1,2 JULY/AUGUST 1992

Announcement from the Publisher iv

Soybean yield in Argentina in response to weather variation among cropping seasons
T.R. Sinclair (Gainesville, FL, USA), L. Salado-Navarro (Cordoba, Argentina), E.N. Morandi (Rosario, Argentina), M.L. Bodrero (Santa Fe, Argentina) and R.A. martignone (Rosario, Argentina) 1

Influence of solar radiation and temperature on irrigated rice grain yield in Bangladesh
M.S. Islam and J.I.L. Morison (Reading, UK) 13

Alternative methods for the selection of phosphorus efficiency in wheat
G.P.D. Jones, R.S. Jessop and G.J. Blair (Armidale, N.S.W., Australia) 29

Utilization efficiency of applied nitrogen as related to yield advantage in maize/mungbean intercropping
M.K. Chowdhurry and E.L. Rosario (Laguna, Philippines) 41

A nitrogen-response comparison between semi-prolific and non-prolific maize hybrids with regard to grain yield and plant nitrogen concentrations
F.G. Adriaanse (Potchefstroom, South Africa) and J.J. Human (Bloemfontein, South Africa) 53

A model to assess nitrogen limitations on the growth and yield of spring wheat
T.R. Sinclair (Gainesville, FL, USA) and J. Amir (Negev, Israel) 63

Utility of repeated checks for hierarchical classification of data from plant breeding trials
J.K. Bull, M. Cooper, I.H. DeLacy, K.E. Basford (Queensland, Australia) and D.R. Woodruff (Toowoomba, Qld., Australia) 79

Soil properties, crop water use and cereal yields in Botswana after additions of mulch and manure
D.C. Carter, D. Harris (Gaborone, Botswana), J.B. Youngquist (Lincoln, NE, USA) and N. Persaud (Gaborone, Botswana) 97

Influence of maize row spacing on infestation and damage of intercropped beans by the bean aphid (*Aphis fabae* Scop.). I. Incidence of aphids
M.W. Ogenga-Latigo (Nairobi, Kenya), J.K.O. Ampofo (Arusha, Tanzania) and C.W. Baliddawa (Kampala, Uganda) 111

Influence of maize row spacing on infestation and damage of intercropped beans by the bean aphid (*Aphis fabae* Scop.). II. Reduction in bean yields
M.W. Ogenga-Latigo (Nairobi, Kenya), C.W. Baliddawa (Kampala, Uganda) and J.K.O. Ampofo (Arusha, Tanzania) 123

Agronomic modification of competition between cassava and pigeonpea in intercropping
U. Cenpukdee and S. Fukai (Queensland, Australia) 131

Screening of world chickpea germplasm for resistance to fusarium wilt
M.P. Haware, Y.L. Nene, R.P.S. Pundir and J. Narayana Rao (Patancheru, India) 147

Screening for resistance to *Ascochyta* blight in populations of *Phaseolus coccineus* L. and *P. polyanthus* Greenman
V. Schmit and J.P. Baudoin (Gembloux, Belgium) 155
Reaction of a diallel cross of maize to *Meloidogyne incognita* under field conditions
W.P. Williams and G.L. Windham (Mississippi State, MS, USA) 167
Production of triploid cassava, *Manihot esculenta* Crantz by hybrid diploid gametes
N.M.A. Nassar (Brasilia, Brazil) 173

Short Communication
Damage assessment by eye: some Caribbean observations
W.J. Fielding (Kingston, Jamaica) 183

Books reviews
Plant genetic resources of Ethiopia 187
Wheat health management 188

VOL. 30 NOS. 3,4 SEPT./OCT. 1992

Announcement from the Publisher ii
Introduction
G.J. Seiler (Fargo, ND, USA) 191
Utilization of wild sunflower species for the improvement of cultivated sunflower
G.J. Seiler (Fargo, ND, USA) 195
Achievements and future directions of sunflower breeding
D. Škorić (Novi Sad, Yugoslavia) 231
Sclerotinia and *Phomopsis* – two devastating sunflower pathogens
S. Masirevic (Novi Sad, Yugoslavia) and T.J. Gulya (Fargo, ND, USA) 271
Insect pests and strategies for their management in cultivated sunflower
C.E. Rogers (Tifton, GA, USA) 301
Physiology of yield expression in sunflower
D.J. Connor and V.O. Sadras (Melbourne, Vic., Australia) 333
Production of semidwarf and dwarf sunflower in the northern Great Plains of the United States
A.A. Schneiter (Fargo, ND, USA) 391
Sunflower simulation using the EPIC and ALMANAC models
J.R. Kiniry (Temple, TX, USA), R. Blanchet (Toulouse, France), J.R. Williams (Temple, TX, USA), V. Texier (Toulouse, France), C.A. Jones (Temple, TX, USA) and M. Cabelguenne (Toulouse, France) 403
Present state and future prospects of biotechnology in sunflower breeding
W. Friedt (Giessen, Germany) 425

Author Index 443
Subject Index 445
Contents of *Field Crops Research*, Volume 30 447